

June 25, 1971

3229

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 3229 MAP

ARDO MINES LTD. (N.P.L.)

INTRODUCTION

Ardo Mines Ltd. (N.P.L.) continued their exploration activities on the Cariboo property situated near Likely, British Columbia. The work carried out in the Summer of 1970 includes line cutting, magnetometer surveys, and diamond drilling. This report mainly deals with the results of the work carried out in 1970.

In the Summer and Fall of 1969 intensive exploration work was carried out on this property, including diamond drilling. The report by this author dated March 5, 1970 describes the results of the work carried out last year.

PROPERTY

The property consists of some one hundred and one contiguously located mineral claims and they are identified as follows:

<u>Claims</u>		<u>Record Numbers</u>
Polley	1 - 4	31394 - 31397
April	1 - 16	48571 - 48586
May	1 - 16	48587 - 48602
Russ	1,2,5,7	53489, 53490, 53491, 53492

1 Claim Map
2 Mag. Survey

Maps

...2

<u>Claims</u>		<u>Record Numbers</u>
<u>Red Rock Group:</u>		
Shirley	1 - 6	51316-319, 318, 317, 53040-41
Jodie	1 - 2	52568-69
Tiki	1 - 10	53494-53503
Fir	1,3,5-18	48483, 48485, 48487 to 48500
Red Rock	1,3,5	31388, 31390, 31392.
Pine	2,3,4	48502-04
<u>Pine Group:</u>		
Pine	1, 5 to 18	48501, 48505-48518
Red Rock	2,4,6	31389, 31391, 31393
Fir	2,4	48484, 48486
Russ	8	53493
<u>Nora Group:</u>		
Nora	1 - 16	59053-59068

These claims are recorded at the Mining Recorders Office in Quesnel, British Columbia.

LOCATION AND ACCESS

The property under discussion is situated in the vicinity of the village of Likely, British Columbia, on the Quesnel River. Access to the different parts of the property is excellent by means of all weather, gravelled secondary roads from the 150 Mile House, which is situated about forty-five miles southwest of the above property.

...3

Adjacent to the southwest corner of this property are situated the mineral claims belonging to the Cariboo Bell Mines Ltd. It has been announced that this company has already outlined approximately thirty-seven million tons of ore with a grade of 0.515% copper. It is understood that recent exploration programs have added more tonnage to the original reserves. The Gibraltar Mines, which have come up with an announcement of approximately one hundred and eighty-one million tons of .39% copper, are situated approximately twenty miles southwest of the Ardo Mines Ltd. (N.P.L.) property. It appears that all the three properties are situated in a line trending northeast-southwest with a possibility of different parallel mineralized zones.

TOPOGRAPHY AND VEGETATION

The property occupies the north facing slope around the south side of the Quesnel River. Elevations vary from approximately 2400 feet to 3200 feet above sea level. In general, the northward facing slopes are severe and many steep phases are encountered. The area of the property is forest covered with subcommercial and commercial fir, pine, and cedar. Undergrowth consisting of second growth fir, pine and alder is generally extensive. The climate is temperate, with an average rainfall of some 30 inches per year. Supplies of water and timber for exploration and development purposes are more than sufficient.

GEOLOGY

The great majority of the property is covered with an over-burden of varying depths from 19 feet to 35 feet. The property is underlain by volcanic andesite which hosts different intrusive rock types. The andesite itself has been subjected to varying grades of metamorphism ranging from slightly altered andesite to highly altered andesitic schists. The next predominant rocks are the intermediate types; the pseudo monzonites of different textures, syenites, some diorites, and breccias. Mostly, the monzonite-breccias carry the mineralization. This hybrid zone is situated at the contact of the andesite and monzonite, but more towards the monzonitic area. Some contact metamorphic minerals were also noticed. Usually, this hybrid formation carries a fair amount of magnetite, some garnets and epidotes. Chalcopyrite is mostly situated within or around the magnetite and epidote. Few narrow zones of lamprophyr intrusives were also noticed in one drill hole. Pyrite is abundant in most of the rock types. Shearing and minor faults were apparent in all the drill holes. The property has a complex lithology and has a favourable rock type to host mineralized zones which has to be delineated by intensive exploration.

WORK PERFORMED

In the Summer of 1970 a magnetometer survey was conducted on the Polley claim group using fluxgate MF1 magnetometer. The results were plotted and submitted to Mr. Richard O. Crosby, Geophysicist, Seigel Associates Ltd. for interpretation. His comments are enclosed herewith.

SEIGEL ASSOCIATES LIMITED
GEOPHYSICAL CONSULTANTS & CONTRACTORS
A DIVISION OF SCINTREX LIMITED

July 28, 1971

Mr. Sankar V. Ramani
630 - 890 West Pender Street
Vancouver 1, B. C.

Dear Mr. Ramani:

Re: Magnetometer Survey
Polley Claim Group
Likely Area, British Columbia

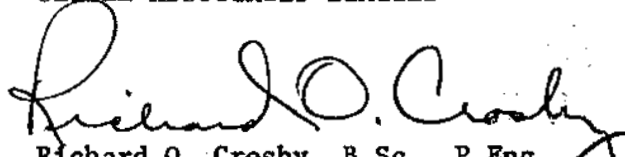
The enclosed magnetic contour map has a total magnetic relief of about 1600 gammas occurring principally as a narrow anomalous zone trending east-west across the centre of the survey grid. Since the negative portion of this anomaly occurs on the south side it is interpreted as the normal induced field occurring over a flat lying thin sheet. Geologically this could be a flat lying andesitic flow.

The remainder of the map consists of randomly oriented, high frequency anomalies which might arise from sources within the overburden, or possibly from a more acidic or altered phase of andesite.

Since chalcopyrite has been encountered on the property it is recommended that an induced polarization survey be completed in order to map the subsurface distribution of metallic sulphides.

Respectfully submitted,

SEIGEL ASSOCIATES LIMITED


Richard O. Crosby, B.Sc., P.Eng.
Consulting Geophysicist

ROC:lm

Geochemical and magnetometer surveys were conducted on these grid lines. This work was performed on the "Nora" Group of claims.

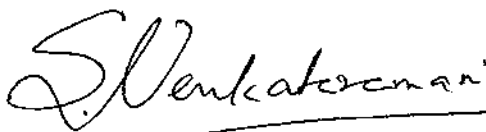
CONCLUSIONS

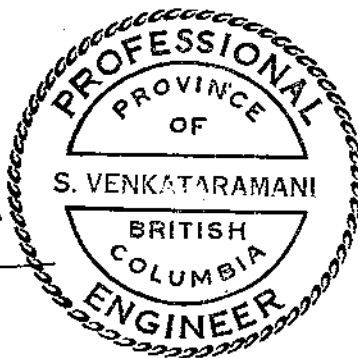
1. The geology and structure on this property appear to be favourable for mineral deposit.
2. The diamond drilling so far carried out has indicated moderate copper values and further geophysical and geological investigations are necessary to assess the property's economic potential.

RECOMMENDATIONS

The future exploration program on this property should include line cutting, induced polarization, magnetometer and geochemical surveys on the north and southwest parts of this property. The exact cost estimation for this program will be submitted later.

Respectfully submitted,





S. Venkataramani, M.Sc., P.Eng.

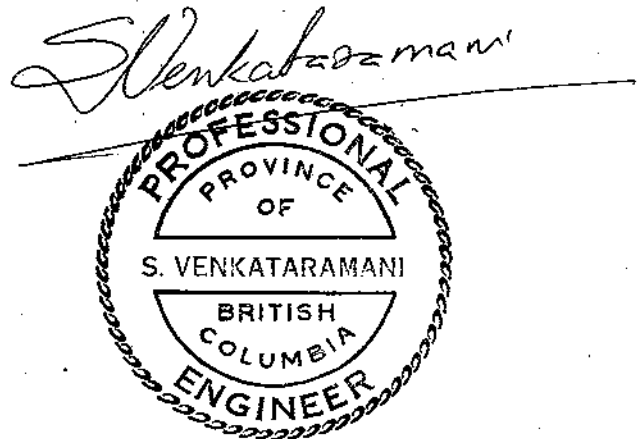
C E R T I F I C A T E

I, S. Venkataramani, of Vancouver, British Columbia, do hereby certify that:

1. I am a consulting geologist with my office located at #630 - 890 West Pender Street, Vancouver 1, B. C.
2. I am a graduate geologist with a Master of Science Degree from the University of Madras, India.
3. I am a member of the Association of Professional Engineers of the Province of British Columbia.
4. I am a certified professional geologist belonging to the American Institute of Professional Geologists, Golden, Colorado, U. S. A.
5. I am a member of the Canadian Institute of Mining and Metallurgy.
6. I have been practicing my profession for over 10 years.
7. I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly in this property or the securities of Ardo Mines Ltd. (N.P.L.)
8. This report is based on my personal visit to the area and from previous reports on the property and the published geological literature.

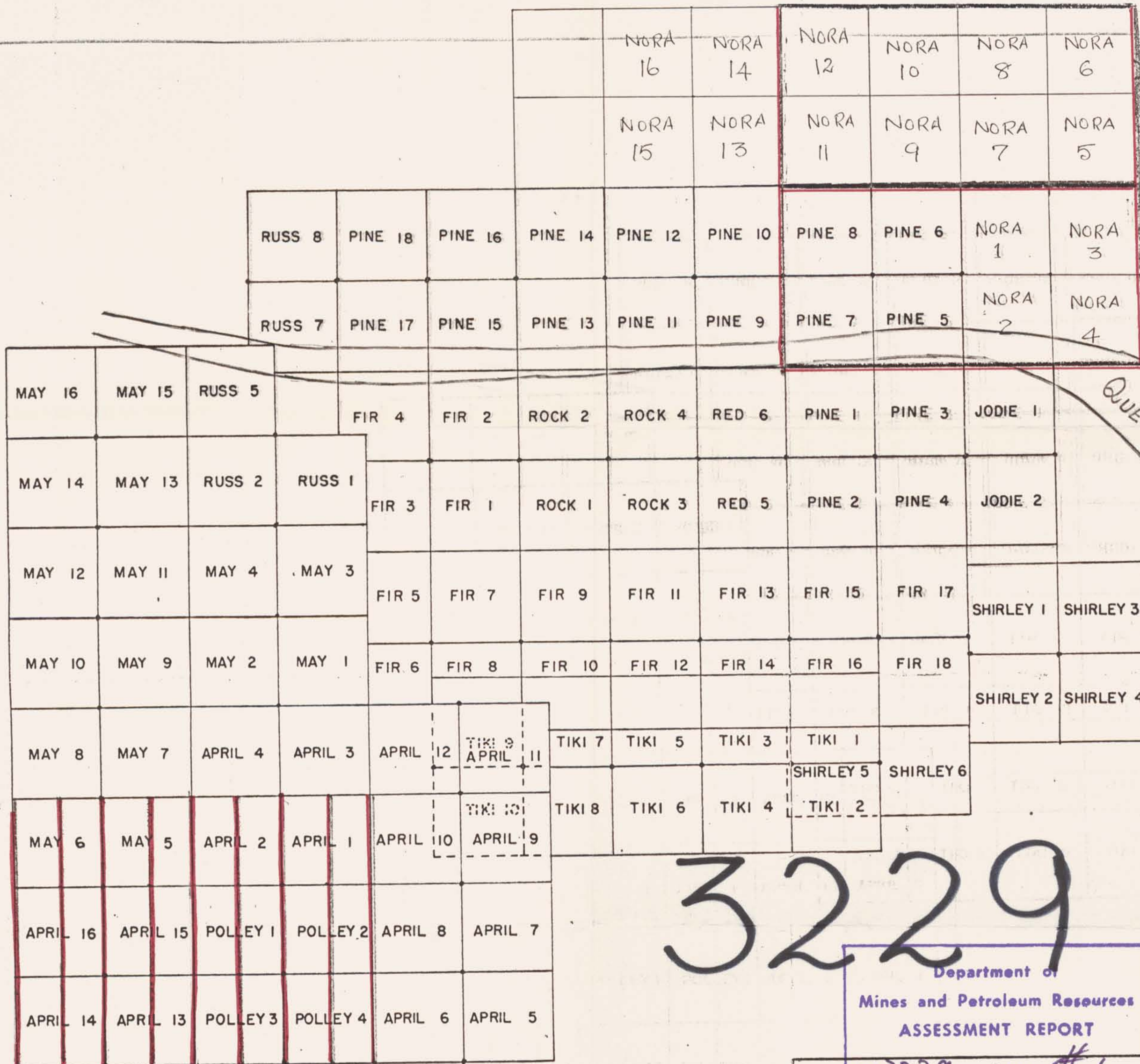
Vancouver, British Columbia

S. Venkataramani, M.Sc. P. Eng.



NORA GROUP

SURVEY AREA



3229 M-1

BASE LINES A B C D E F G H I

SURVEY AREA

POLLEY Group.

Department of
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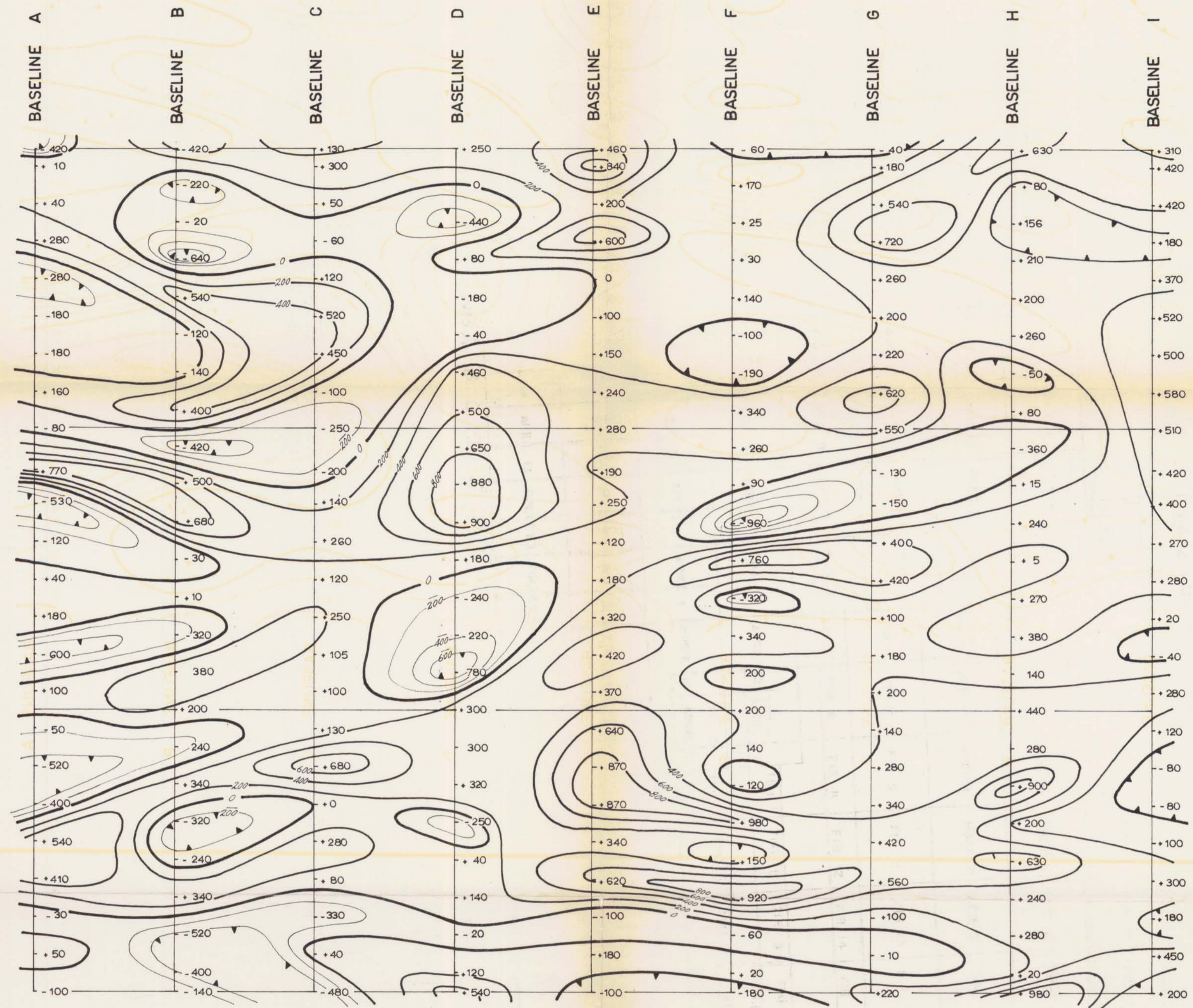
ARDO MINES LTD. (N.P.L.)

LIKELY AREA

POLLEY GROUP.

SCALE : 1" = 1500'

PRIMAC EXPLORATION SERVICES LTD.



LEGEND

- + 320 LINETRACE WITH MAGNETIC VALUES IN GAMMAS
- - NEGATIVE VALUES
- ± 0
- + POSITIVE VALUES



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ARDO MINES LIMITED
POLLY CLAIM GROUP
LIKELY AREA, BRITISH COLUMBIA
MAGNETOMETER SURVEY

SCALE: 1 inch = 400 feet
400 feet 0 400 feet

SURVEY BY PRIMAC EXPLORATION SERVICES LTD. MARCH 1971
INTERPRETATION BY SEIGEL ASSOCIATES LIMITED JULY 1971